Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2018-09-08-06** **Date: 10-09-18**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP,
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads, Drains at Thanisandra in Ward No.06 Byatarayanapura Sub Division.
Agency	:	Sri.V.Chandrappa, Contractor, Dasarahalli, Hebbala (P), Bangalore-24
Customer's Reference	:	BBMP/EE/BTP/WO/107/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	08-09-18
Sample ID No	:	2018-09-08-06 /01
Sample Type	:	ACC 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	08-09-18
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.05	–
2	Finess by Air permeablity method (m^2/kg,Min)	293.5	225m^2/kg, Min
3	Density (gm/cc)	3.14	–
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	135 minutes	Not less than 30 minutes
6	Final Setting time	255 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

Note:

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Quality Manager

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2018-09-08-06** **Date: 06-10-18**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads, Drains at Thanisandra in Ward No.06 Byatarayanapura Sub Division.
Agency	:	Sri.V.Chandrappa, Contractor, Dasarahalli, Hebbala (P), Bangalore-24
Customer's-Reference	:	BBMP/EE/BTP/WO/107/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	08-09-18
Sample ID No	:	2018-09-08-06 /01
Sample Type	:	ACC 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	08-09-18
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	29.5N/mm2	Not less than 27 N/mm^2
2	7 Days	38.5N/mm2	Not less than 37 N/mm^2
3	28 Days	56.0N/mm^2	Not less than 53 N/mm^2

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ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು
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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-09-08-06** **Date: 11-09-18**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads, Drains at Thanisandra in Ward No.06 Byatarayanapura Sub Division.
Agency	:	Sri.V.Chandrappa, Contractor, Dasarahalli, Hebbala (P), Bangalore-24
Customer's Reference	:	BBMP/EE/BTP/WO/107/2018-19
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	08-09-18
Sample ID No	:	2018-09-08-06 /02(a)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	08-09-18

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	238	238	1.6	98.4	90-100
3	20 mm	7448	7686	51.2	48.8	30-70
4	10 mm	5488	13174	87.8	12.2	10-35
5	4.75 mm	1495	14669	97.8	2.2	0-5
6	Pan	331	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2018-09-08-06** **Date: 11-09-18**

Sample ID No : 2018-09-08-06 /02(a)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	11.5	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.9	
3	Specific Gravity	2.67	_
4	Bulk Density(Loose) (Kg/l)	1.38	_
5	Bulk Density(Compacted) (Kg/l)	1.43	_
6	Water Absorption(%)	0.25	_

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-09-08-06** **Date: 10-09-18**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads, Drains at Thanisandra in Ward No.06 Byatarayanapura Sub Division.
Agency	:	Sri.V.Chandrappa, Contractor, Dasarahalli, Hebbala (P), Bangalore-24
Customer Reference	:	BBMP/EE/BTP/WO/107/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	08-09-18
Sample ID No	:	2018-09-08-06 /02(b)
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	08-09-18

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	235	235	4.7	95.3	90-100
3	10 mm	2799	3034	60.7	39.3	25-55
4	4.75 mm	1856	4890	97.8	2.2	0-10
5	Pan	110	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2018-09-08-06** **Date: 10-09-18**

Sample ID No : 2018-09-08-06 /02(b)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	10.8	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.7	
3	Specific Gravity	2.64	–
4	Bulk Density(Loose) (Kg/l)	1.45	–
5	Bulk Density(Compacted) (Kg/l)	1.50	–
6	Water Absorption(%)	0.28	–
7	Aggregate crushing Value(%)	23.1	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	22.7	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2018-09-08-06** **Date: 10-09-18**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads, Drains at Thanisandra in Ward No.06 Byatarayanapura Sub Division.

Agency : Sri.V.Chandrappa, Contractor, Dasarahalli, Hebbala (P), Bangalore-24

Customer's Reference : BBMP/EE/BTP/WO/107/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 08-09-18

Sample ID No : 2018-09-08-06 /03

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 08-09-18

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	14	14	1.4	98.6	90-100	90-100	90-100	95-100
3	2.36 mm	214	228	22.8	77.2	60-95	75-100	85-100	95-100
4	1.18 mm	187	415	41.5	58.5	30-70	55-90	75-100	90-100
5	600 micron	202	617	61.7	38.3	15-34	35-59	60-79	80-100
6	300 micron	137	754	75.4	24.6	5-20	8-30	12-40	15-50
7	150 micron	187	941	94.1	5.9	0-10	0-10	0-10	0-15
8	Pan	59	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2018-09-08-06** **Date: 10-09-18**

Sample ID No : 2018-09-08-06 /03

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.42	–
2	Specific Gravity	2.54	–
3	Material finer than 75 micron(%)	8.95	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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TEST RESULTS OF STEEL

Lab ID	:	**CP-2018-09-08-06** **Date: 09-09-18**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads, Drains at Thanisandra in Ward No.06 Byatarayanapura Sub Division.
Agency	:	Sri.V.Chandrappa, Contractor, Dasarahalli, Hebbala (P), Bangalore-24
Customer's Reference	:	BBMP/EE/BTP/WO/107/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	08-09-18
Sample ID No	:	2018-09-08-06 /04
Sample Type	:	Sunvik
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
Date of test:	:	08-09-18

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.398	548	668	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.624	572	686	19.5%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.872	588	698	19.0%	Satisfactory	Satisfactory

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Format No: CP/TF/01

TEST REPORT OF PRECAST COVER SLAB

Lab ID : **CP-2018-09-08-06** **Date: 12-09-18**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads, Drains at Thanisandra in Ward No.06 Byatarayanapura Sub Division.

Agency : Sri.V.Chandrappa, Contractor, Dasarahalli, Hebbala (P), Bangalore-24

Customer's Reference : BBMP/EE/BTP/WO/107/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 08-09-18

Sample ID No : 2018-09-08-06 /06

Sample Type /Size : 150mm Thick Precast Cover Slab

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete

Date of test : 08/09/2018

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	100.48	150.02	2.144	7928	149.8	18.9	17.6	22.0
2	Cover Slab-2	100.52	150.03	2.148	7934	151.2	19.1	17.7	22.2
3	Cover Slab-3	100.51	150.04	2.144	7933	150.6	19.0	17.7	22.1

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-09-17-04** **Date: 21/09/2018**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads, Drains at Thanisandra in Ward No.06 Byatarayanapura Sub Division.

Agency : Sri.V.Chandrappa, Contractor, Dasarahalli, Hebbala (P), Bangalore-24

Customer's Reference : BBMP/EE/BTP/WO/107/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 17-09-18

Sample ID No : 2018-09-17-04 /01

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 21/09/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	14/09/2018	21/09/2018	149.15 X 149.22 X 150.28	22256	8.349	421.6	18.9	18.8
2	Drain Concrete	M20	14/09/2018	21/09/2018	151.49 X 149.97 X 150.47	22719	8.129	428.9	18.9	
3	Drain Concrete	M20	14/09/2018	21/09/2018	149.57 X 149.98 X 150.39	22432	8.255	419.4	18.7	

Note:

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-09-17-04** **Date: 12/10/2018**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads, Drains at Thanisandra in Ward No.06 Byatarayanapura Sub Division.

Agency : Sri.V.Chandrappa, Contractor, Dasarahalli, Hebbala (P), Bangalore-24

Customer's Reference : BBMP/EE/BTP/WO/107/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 17-09-18

Sample ID No : 2018-09-17-04 /02

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 12/10/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	14/09/2018	12/10/2018	149.10 X 149.08 X 151.99	22228	8.363	530.3	23.9	23.2
2	Drain Concrete	M20	14/09/2018	12/10/2018	149.40 X 150.22 X 149.97	22442	8.356	497.5	22.2	
3	Drain Concrete	M20	14/09/2018	12/10/2018	149.06 X 151.48 X 149.93	22580	8.083	529.7	23.5	

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ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-28

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-09-17-04** **Date: 21/09/2018**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads, Drains at Thanisandra in Ward No.06 Byatarayanapura Sub Division.

Agency : Sri.V.Chandrappa, Contractor, Dasarahalli, Hebbala (P), Bangalore-24

Customer's Reference : BBMP/EE/BTP/WO/107/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 17-09-18

Sample ID No : 2018-09-17-04 /03

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 21/09/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	14/09/2018	21/09/2018	150.11 X 149.65 X 150.24	22464	8.144	395.4	17.6	17.9
2	Drain Concrete	M20	14/09/2018	21/09/2018	151.26 X 149.78 X 150.63	22655	8.163	419.1	18.5	
3	Drain Concrete	M20	14/09/2018	21/09/2018	150.42 X 150.11 X 149.62	22580	8.196	397.4	17.6	

Note:

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-09-17-04** **Date: 12/10/2018**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads, Drains at Thanisandra in Ward No.06 Byatarayanapura Sub Division.

Agency : Sri.V.Chandrappa, Contractor, Dasarahalli, Hebbala (P), Bangalore-24

Customer's Reference : BBMP/EE/BTP/WO/107/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 17-09-18

Sample ID No : 2018-09-17-04 /04

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 12/10/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	14/09/2018	12/10/2018	149.05 X 151.42 X 151.36	22569	8.201	492.0	21.8	21.7
2	Drain Concrete	M20	14/09/2018	12/10/2018	151.42 X 151.02 X 150.00	22867	8.176	505.4	22.1	
3	Drain Concrete	M20	14/09/2018	12/10/2018	149.75 X 150.02 X 151.63	22465	8.193	478.5	21.3	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-09-17-04** **Date: 21/09/2018**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads, Drains at Thanisandra in Ward No.06 Byatarayanapura Sub Division.

Agency : Sri.V.Chandrappa, Contractor, Dasarahalli, Hebbala (P), Bangalore-24

Customer's Reference : BBMP/EE/BTP/WO/107/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 17-09-18

Sample ID No : 2018-09-17-04 /05

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 21/09/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	14/09/2018	21/09/2018	149.87 X 150.02 X 150.46	22483	8.112	402.5	17.9	17.5
2	Drain Concrete	M20	14/09/2018	21/09/2018	150.56 X 150.21 X 150.28	22616	8.165	398.0	17.6	
3	Drain Concrete	M20	14/09/2018	21/09/2018	151.46 X 150.63 X 150.23	22814	8.175	390.1	17.1	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-09-17-04** **Date: 12/10/2018**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads, Drains at Thanisandra in Ward No.06 Byatarayanapura Sub Division.

Agency : Sri.V.Chandrappa, Contractor, Dasarahalli, Hebbala (P), Bangalore-24

Customer's Reference : BBMP/EE/BTP/WO/107/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 17-09-18

Sample ID No : 2018-09-17-04 /06

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 12/10/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	14/09/2018	12/10/2018	149.66 X 151.42 X 150.42	22662	8.147	532.5	23.5	22.8
2	Drain Concrete	M20	14/09/2018	12/10/2018	150.66 X 150.24 X 150.85	22635	8.163	518.3	22.9	
3	Drain Concrete	M20	14/09/2018	12/10/2018	150.47 X 150.66 X 149.00	22670	8.155	496.5	21.9	

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ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-09-17-04** **Date: 22/09/2018**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads, Drains at Thanisandra in Ward No.06 Byatarayanapura Sub Division.

Agency : Sri.V.Chandrappa, Contractor, Dasarahalli, Hebbala (P), Bangalore-24

Customer's Reference : BBMP/EE/BTP/WO/107/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 17-09-18

Sample ID No : 2018-09-17-04 /07

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 22/09/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	15/09/2018	22/09/2018	149.66 X 151.24 X 150.74	22635	8.156	411.9	18.2	18.4
2	Drain Concrete	M20	15/09/2018	22/09/2018	150.66 X 150.47 X 150.23	22670	8.145	419.4	18.5	
3	Drain Concrete	M20	15/09/2018	22/09/2018	150.47 X 150.98 X 150.55	22718	8.192	422.6	18.6	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-09-17-04** **Date: 13/10/2018**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads, Drains at Thanisandra in Ward No.06 Byatarayanapura Sub Division.

Agency : Sri.V.Chandrappa, Contractor, Dasarahalli, Hebbala (P), Bangalore-24

Customer's Reference : BBMP/EE/BTP/WO/107/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 17-09-18

Sample ID No : 2018-09-17-04 /08

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 13/10/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	15/09/2018	13/10/2018	151.02 X 149.85 X 151.24	22630	8.159	518.2	22.9	22.7
2	Drain Concrete	M20	15/09/2018	13/10/2018	150.74 X 150.88 X 150.96	22744	8.177	511.7	22.5	
3	Drain Concrete	M20	15/09/2018	13/10/2018	150.56 X 150.68 X 150.98	22686	8.186	512.7	22.6	

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Quality Manager

CIVIL PRO BANGALORE Sig..... Date.....

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-09-17-04** **Date: 22/09/2018**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads, Drains at Thanisandra in Ward No.06 Byatarayanapura Sub Division.

Agency : Sri.V.Chandrappa, Contractor, Dasarahalli, Hebbala (P), Bangalore-24

Customer's Reference : BBMP/EE/BTP/WO/107/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 17-09-18

Sample ID No : 2018-09-17-04 /09

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 22/09/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	15/09/2018	22/09/2018	149.77 X 150.22 X 151.98	22498	8.198	384.7	17.1	17.1
2	Drain Concrete	M20	15/09/2018	22/09/2018	150.31 X 150.11 X 150.71	22563	8.164	376.8	16.7	
3	Drain Concrete	M20	15/09/2018	22/09/2018	149.87 X 150.63 X 150.22	22575	8.145	392.8	17.4	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-09-17-04** **Date: 13/10/2018**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads, Drains at Thanisandra in Ward No.06 Byatarayanapura Sub Division.

Agency : Sri.V.Chandrappa, Contractor, Dasarahalli, Hebbala (P), Bangalore-24

Customer's Reference : BBMP/EE/BTP/WO/107/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 17-09-18

Sample ID No : 2018-09-17-04 /10

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 13/10/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	15/09/2018	13/10/2018	151.22 X 150.47 X 150.97	22754	8.165	541.5	23.8	23.9
2	Drain Concrete	M20	15/09/2018	13/10/2018	150.98 X 150.47 X 150.66	22718	8.144	547.5	24.1	
3	Drain Concrete	M20	15/09/2018	13/10/2018	150.73 X 150.99 X 150.35	22759	8.147	541.7	23.8	

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TEST RESULTS OF GRADATION FOR WMM

Lab ID : **CP-RW-2018-09-18-02** **Date: 20-09-18**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads, Drains at Thanisandra in Ward No.06 Byatarayanapura Sub Division.

Agency : Sri.V.Chandrappa, Contractor, Dasarahalli, Hebbala (P), Bangalore-24

Customer Reference : BBMP/EE/BTP/WO/107/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 18-09-18

Sample ID No : 2018-09-18-02/01

Type of Mix : WMM (Wet Mix Macadam)

Date of test : 18-09-18

Oven Dry Weight : 10000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	315	315	3.2	96.9	95-100
22.4	2259	2574	25.7	74.3	60-80
11.2	2179	4753	47.5	52.5	40-60
4.75	2251	7004	70.0	30.0	25-40
2.36	1490	8494	84.9	15.1	15-30
0.6	600	9094	90.9	9.1	8-22
0.075	906	10000	100.0	0.0	0-5

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TEST RESULTS OF GRADATION FOR SDBC
IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	**CP-RW-2018-09-24-02** **Date: 26-09-18**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads, Drains at Thanisandra in Ward No.06 Byatarayanapura Sub Division.
Agency	:	Sri.V.Chandrappa, Contractor, Dasarahalli, Hebbala (P), Bangalore-24
Customer Reference	:	BBMP/EE/BTP/WO/107/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	24-09-18
Sample ID No	:	2018-09-24-02/01
Type of Mix	:	SDBC-Plant (Semi Dense Bituminous Concrete)
Date of test	:	24-09-18
Weight of Sample	:	5000 Grams

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-15(grading-2)
13.2	0	0	0.0	100.0	100
9.5	322	322	6.4	93.6	90-100
4.75	2188	2510	50.2	49.8	35-51
2.36	689	3199	64.0	36.0	24-39
1.18	488	3687	73.7	26.3	15-30
0.3	598	4285	85.7	14.3	9-19
0.075	423	4708	94.2	5.8	3-8
PAN	291	4999	100.0	0.0	0

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Quality Manager

CIVIL PRO Sig..... Date..... BANGALORE

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TEST REPORT OF AGGEGRATE STRIPPING VALUE OF ROAD AGGRGATE (IS:6241)

Lab ID	:	**CP-RW-2018-09-24-02** **Date: 27-09-18**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads, Drains at Thanisandra in Ward No.06 Byatarayanapura Sub Division.
Agency	:	Sri.V.Chandrappa, Contractor, Dasarahalli, Hebbala (P), Bangalore-24
Customer Reference	:	BBMP/EE/BTP/WO/107/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	24-09-18
Sample ID No	:	2018-09-24-02/01
Type of Mix	:	SDBC (Semi Dense Bituminous Concrete)
Date of test	:	24-09-18

Type of Binder	:	60/70
% of Binder Used	:	5.0%
Weight of Aggregate	:	200.0 gm
Weight of Binder	:	10.0 gm
Temperature of water bath	:	40°C

No of test	Retained Stripping Percentage	Stripping Percentage	Average Retained Stripping Percentage	Secified limits as per MORTH specification table 500-8
1	98.5	1.5	98.3	Minimum Retained Coating 95%
2	98.0	2.0		
3	98.5	1.5		

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TESTS RESULTS ON STABILITY OF MIX

Lab ID	:	**CP-RW-2018-09-24-02** **Date: 27-09-18**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads, Drains at Thanisandra in Ward No.06 Byatarayanapura Sub Division.
Agency	:	Sri.V.Chandrappa, Contractor, Dasarahalli, Hebbala (P), Bangalore-24
Customer Reference	:	BBMP/EE/BTP/WO/107/2018-19
Source of Sample	:	Hot Mix Plant, Bangalore
Sample Condition	:	Satisfactory
Date of Receipt	:	24-09-18
Sample ID No	:	2018-09-24-02/01
Type of Mix	:	SDBC (Semi Dense Bituminous Concrete)
Date of test	:	24-09-18

The results of the tests conducted on the Semi Dense Bituminous Concrete mix sample are as follow

Sl.No	Particulars of observations	TEST 1	TEST 2	Secified limits as per MORTH specification table 500-16
1	Marshal Stability at 60°C, KN	11.46	11.55	8.2KN(min)
2	Marshal flow at 60°C, mm	3.72	3.65	2-4
3	Percent air Voids	4.52	4.53	3-5
4	Percent Voids in mineral Aggregate(VMA %)	14.02	13.98	13-15
5	Percent Voids filled with Bitumen(VFB %)	72.45	73.1	65-75
6	Density, g/cc	2.62	2.63	–

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ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24

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TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR SDBC
(IS 2386:(Part 1) 1963 (RA2011)

Lab ID	:	**CP-RW-2018-09-28-02**	**Date: 29-09-18**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.	
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.	
Project Name	:	Improvements to Roads, Drains at Thanisandra in Ward No.06 Byatarayanapura Sub Division.	
Agency	:	Sri.V.Chandrappa, Contractor, Dasarahalli, Hebbala (P), Bangalore-24	
Customer Reference	:	BBMP/EE/BTP/WO/107/2018-19	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	28-09-18	
Sample ID No	:	2018-09-28-02/01	
Type of Mix	:	SDBC (Semi Dense Bituminous Concrete)	
Date of test	:	28-09-18	

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	500	500
2	Weight of the sample After extraction	B	477	476
3	Bitumen percentage	$\frac{A-B}{A} \times 100$	4.60	4.80
4	Average percentage	%	4.7	

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o ID : CP-RW-2018-09-28-02 Date: 29-09-18

ample ID No : 2018-09-28-02/01

AFTER EXTRACTION(Trail-1)

Weight of Sample(gm) : 477

IS Sieve Size(mm)	Weight Retained(gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-15(grading-2)
13.2	0	0	0	100.0	100
9.5	29	29	6.08	93.9	90-100
4.75	211	240	50.31	49.7	35-51
2.36	65	305	63.94	36.1	24-39
1.18	41	346	72.54	27.5	15-30
0.3	75	421	88.26	11.7	9-19
0.075	30	451	94.55	5.5	3-8
PAN	26	477	100.00	0.0	0

AFTER EXTRACTION(Trail-2)

Weight of Sample(gm) : 476

IS Sieve Size(mm)	Weight Retained(gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-15(grading-2)
13.2	0	0	0	100.0	100
9.5	25	25	5.25	94.7	90-100
4.75	211	236	49.58	50.4	35-51
2.36	65	301	63.24	36.8	24-39
1.18	42	343	72.06	27.9	15-30
0.3	68	411	86.34	13.7	9-19
0.075	42	453	95.17	4.8	3-8
PAN	23	476	100.00	0.0	0

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES |

PHYSICAL REQUIREMENTS FOR COARSE AGGREGATE FOR SEMI DENSE BITUMINOUS CONCRETE

Lab ID : **CP-RW-2018-09-24-02** **Date: 27-09-18**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads, Drains at Thanisandra in Ward No.06 Byatarayanapura Sub Division.

Agency : Sri.V.Chandrappa, Contractor, Dasarahalli, Hebbala (P), Bangalore-24

Customer Reference : BBMP/EE/BTP/WO/107/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 24-09-18

Sample ID No : 2018-09-24-02/01

Type of Mix : SDBC (Semi Dense Bituminous Concrete)

Date of test : 24-09-18

Physical Requirements fo Coarse Aggregate for Semi Dense Bituminous Concrete

Property	Test	Result	Specification	Method of Test
Partical Shape	Flakiness Index	8.5	Combined Flakiness & Elongation Index for DBM is Maximum 35%	IS:2386 Part I
	Elongation Index	12.6		
Strength	Aggregate Impact Value	22.8	Maximum 30%	IS:2386 Part IV
Specific gravity	Specific gravity	2.56	Maximum 2.7	IS:2386 Part III
Water Absorption	Water Absorption	0.33	Maximum 2%	IS:2386 Part III

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TEST REPORT OF AGGEGRATE IMPACT VALUE
IS: 2386 Part IV

Lab ID	:	**CP-RW-2018-09-18-02** **Date: 20-09-18**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads, Drains at Thanisandra in Ward No.06 Byatarayanapura Sub Division.
Agency	:	Sri.V.Chandrappa, Contractor, Dasarahalli, Hebbala (P), Bangalore-24
Customer Reference	:	BBMP/EE/BTP/WO/107/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	18-09-18
Sample ID No	:	2018-09-18-02/01
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
Date of test	:	18-09-18

Sl.No	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	300.2	300.2
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	73.9	74.0
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	225.9	225.8
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.4	0.4
5	Aggregate impact value	(B/A)*100	24.6	24.7
6	Aggregate impact value (Mean of two tests)	Pecentage	24.6	

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DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE(IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	**CP-RW-2018-09-18-02** **Date: 20-09-18**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads, Drains at Thanisandra in Ward No.06 Byatarayanapura Sub Division.
Agency	:	Sri.V.Chandrappa, Contractor, Dasarahalli, Hebbala (P), Bangalore-24
Customer Reference	:	BBMP/EE/BTP/WO/107/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	18-09-18
Sample ID No	:	2018-09-18-02/01
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
Date of test	:	18-09-18

Result:

Index	Percentage of Flakiness and Elongation Index	Secified limits as per MORTH specification table 400-12
Flakiness Index	12.8%	Combined Flakiness & Elongation Index for WMM is Maximum 35%
Elongation Index	12.5%	
Combined Flakiness and Elongation Index for WMM	25.3%	

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TEST REPORT ON BITUMEN

Lab ID	:	**CP-2018-09-20-04** **Date: 21-09-18**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads, Drains at Thanisandra in Ward No.06 Byatarayanapura Sub Division.
Agency	:	Sri.V.Chandrappa, Contractor, Dasarahalli, Hebbala (P), Bangalore-24
Customer's Reference	:	BBMP/EE/BTP/WO/107/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	20-09-18
Sample ID No	:	2018-09-20-04/01
Sample Type	:	Bitumen
Reference to BIS codes	:	IS: 1201-1220(1978) (Reaffirmed-2004)
Date of test	:	20-09-18

Test Results

Sl.no	Name of Test	Result	Requirements as per IS:73-2013
1	Penetration at 25°C , in 1/10th mm	**64**	60 to 70
2	Softening Point, °C	**51.2**	Min. 40°C
3	Ductility, cm	**98**	Min. 75cm
4	Flash point, °C	**245**	Min. 220°C
	Fire point, °C	**272**	

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